

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 November 2001 (08.11.2001)

PCT

(10) International Publication Number
WO 01/83139 A1

- (51) International Patent Classification⁷: **B22F 1/00**, 3/00, C22C 33/02 (74) Agents: **LARFELDT, Helene et al.**; Bergenstråhle & Lindvall AB, Box 17704, S-118 93 Stockholm (SE).
- (21) International Application Number: PCT/SE01/00905 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (22) International Filing Date: 26 April 2001 (26.04.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0001568-5 28 April 2000 (28.04.2000) SE (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: A METHOD FOR SINTERING A CARBON STEEL PART USING A HYDROCOLLOID BINDER AS CARBON SOURCE.

(57) Abstract: The invention refers to a new method for preparing sintered structural parts of carbon or tool steels or high speed steel having a carbon content of up to 2 % by weight, wherein an agglomerated spherical powder comprising at least 0.5 % of a thermo-reversible hydrocolloid is pressed to a green body of high density which is then heated at 450-650 °C to remove the non-carbon content of the hydrocolloid and subsequently sintered at about 1100-1400 °C to structural parts having high strength properties.

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